CUSTOMIZABLE PROTOCOL FOR INFORMATION TRANSFER BETWEEN HETEROGENEOUS PLATFORMS

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Abstract

Today, most of the organizational information systems are formed using several heterogeneous distributed systems. Some business operations cannot operate only with the information from its own. Relevant information might be maintained in other distributed systems. "Openness" is the basic and the most important property of a distributed system for intercommunicating. it describes how far a system can be extended and inter-operated with other systems. So many standards and protocols are developed for sharing data. However, these standards and protocols have some limitations when it is necessary to transfer different formats of information between heterogeneous systems. Among several available standards .:6nd protocols "SOAP web-service" is becoming popular.

The new protocol that is introduced in this research is based on human communication and conversation techniques. Rather than in system communication, human communication gives the upper hand for the two parties by enabling a meaningful communication exchange.

This new protocol is built upon SOAP protocol for online communications. it is designed in such a way, that most of the drawbacks of existing protocols and standards are eliminated. Offline communications are based on common information files such as spreadsheets.

This new information transfer protocol is bundled with better security features and better performance mechanism. It also can handle a communication process even when one party is rapidly changing, and hence it· allows continuous system developments independent of the communication interface. Heterogeneous systems will be able to use this new protocol to exchange their information in a more effective and flexible manner.